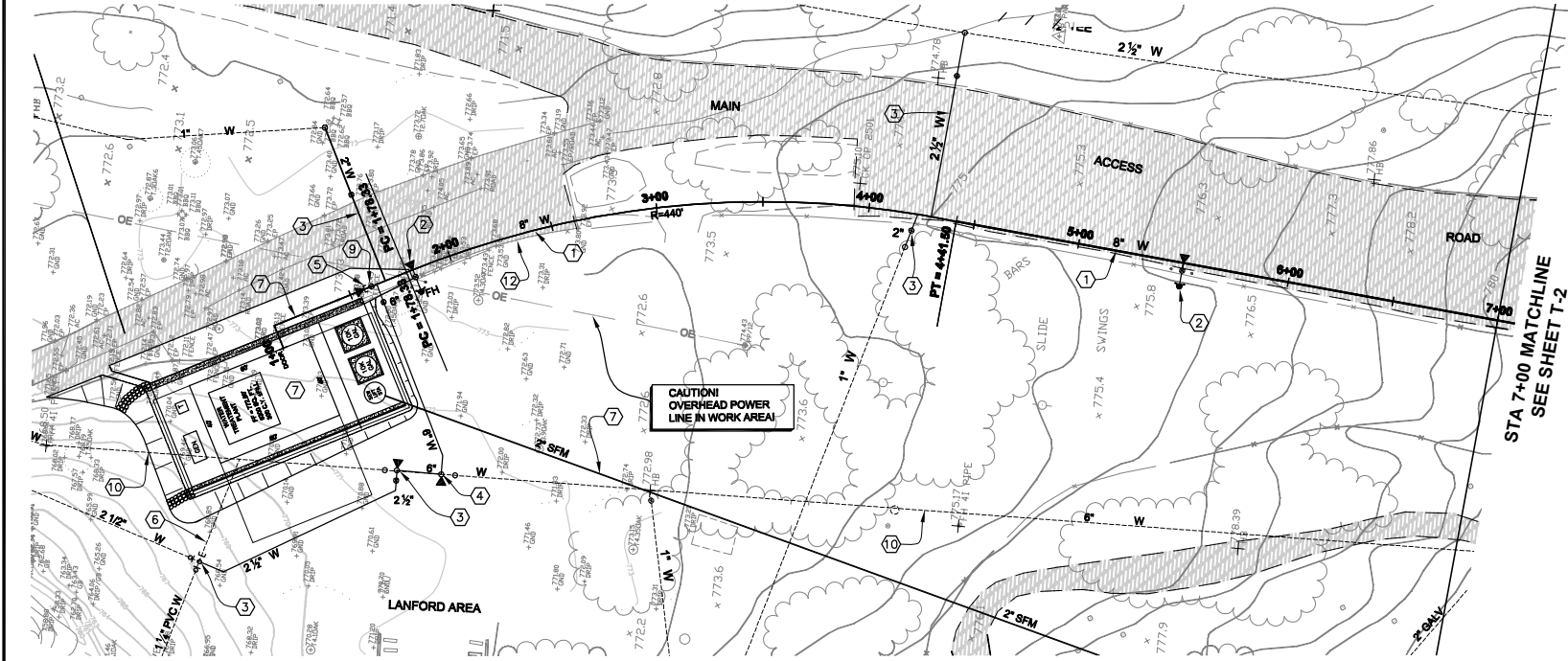
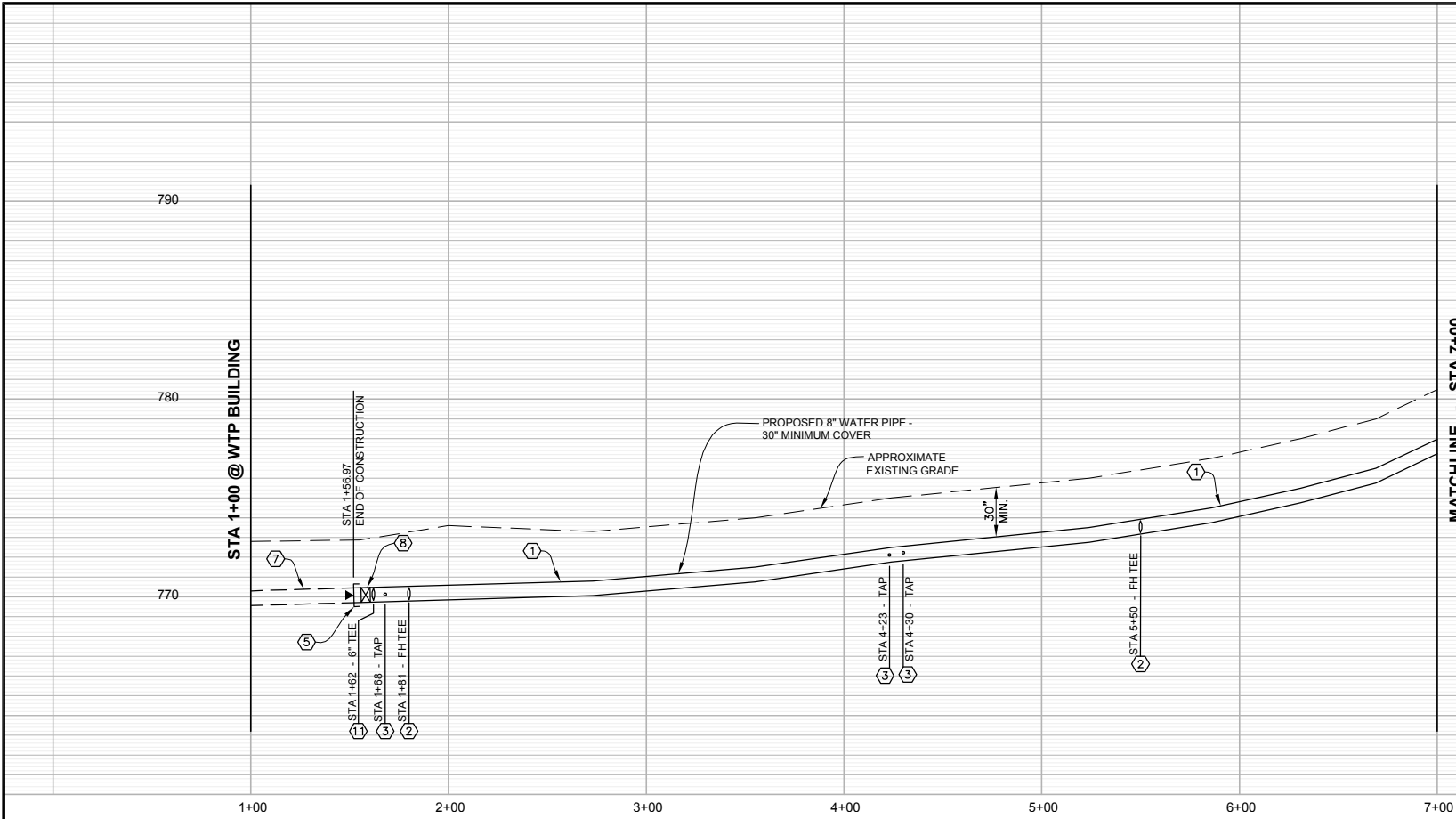

FINAL ENVIRONMENTAL ASSESSMENT

*SANTA BARBARA COUNTY PARKS WATER SYSTEM UPGRADES AT LAKE
CACHUMA CAMPGROUND*

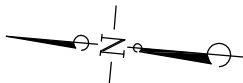
Appendix A
Preliminary Project Designs Set 4

June 2010

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SCALE: 1" = 40'
GRAPHIC SCALE

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED



FLOWERS & ASSOCIATES, INC.
CIVIL ENGINEERS
201 N. Calle Cesar Chavez, Suite 100 Santa Barbara, CA 93103
Telephone (805) 966-2224
BY: *[Signature]* PROJECT ENGINEER DATE: 5/20/09

THESE PLANS HAVE BEEN PREPARED SOLELY FOR USE FOR THE PROJECT SCOPE AND SITE SPECIFICALLY IDENTIFIED HEREON AT THE TIME THESE PLANS ARE BORN. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, USE OF ANY PART OF THESE PLANS, INCLUDING ANY NOTE OR DETAIL, FOR ANY UNAPPROVED OR REVISED PROJECT SCOPE, OR FOR ANY OTHER PROJECT AT THIS OR ANY OTHER SITE.



COUNTY OF SANTA BARBARA
COUNTY PARKS
610 Mission Canyon Road
Santa Barbara, CA 93105

Design: ELF Check: BS
Drawn: SS
Project Engineer:
Date:

**TRANSMISSION PIPELINE
PLAN AND PROFILE**
LAKE CACHUMA WATER STORAGE AND
DISTRIBUTION SYSTEM IMPROVEMENTS
COUNTY OF SANTA BARBARA, CALIFORNIA

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SHT. 9 OF 35

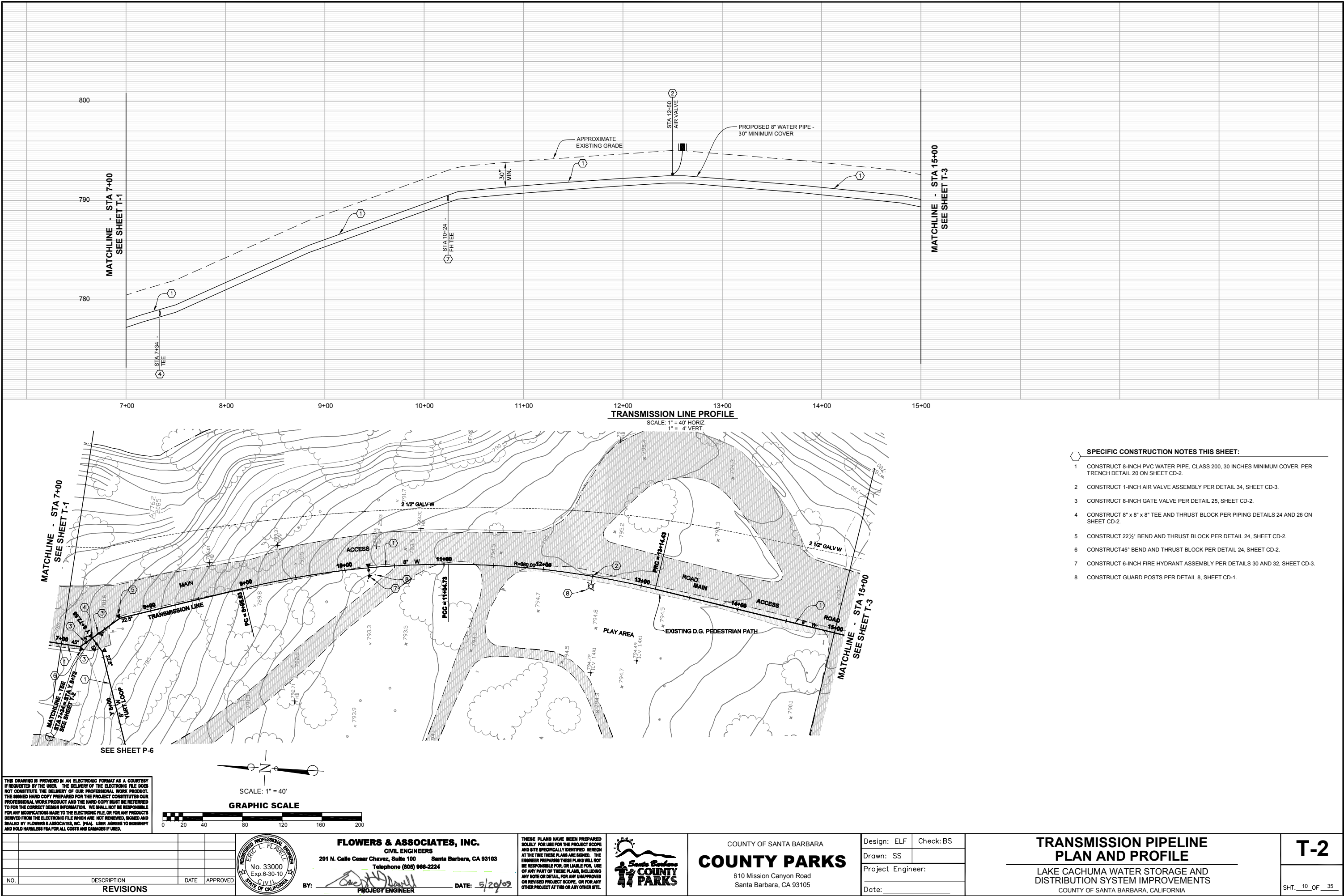
GENERAL CONSTRUCTION NOTES THIS SHEET:

- A. WATER TREATMENT PLANT PLANS AND DETAILS NOT IN CONTRACT.
- B. SEWER FORCE MAIN NOT IN CONTRACT.

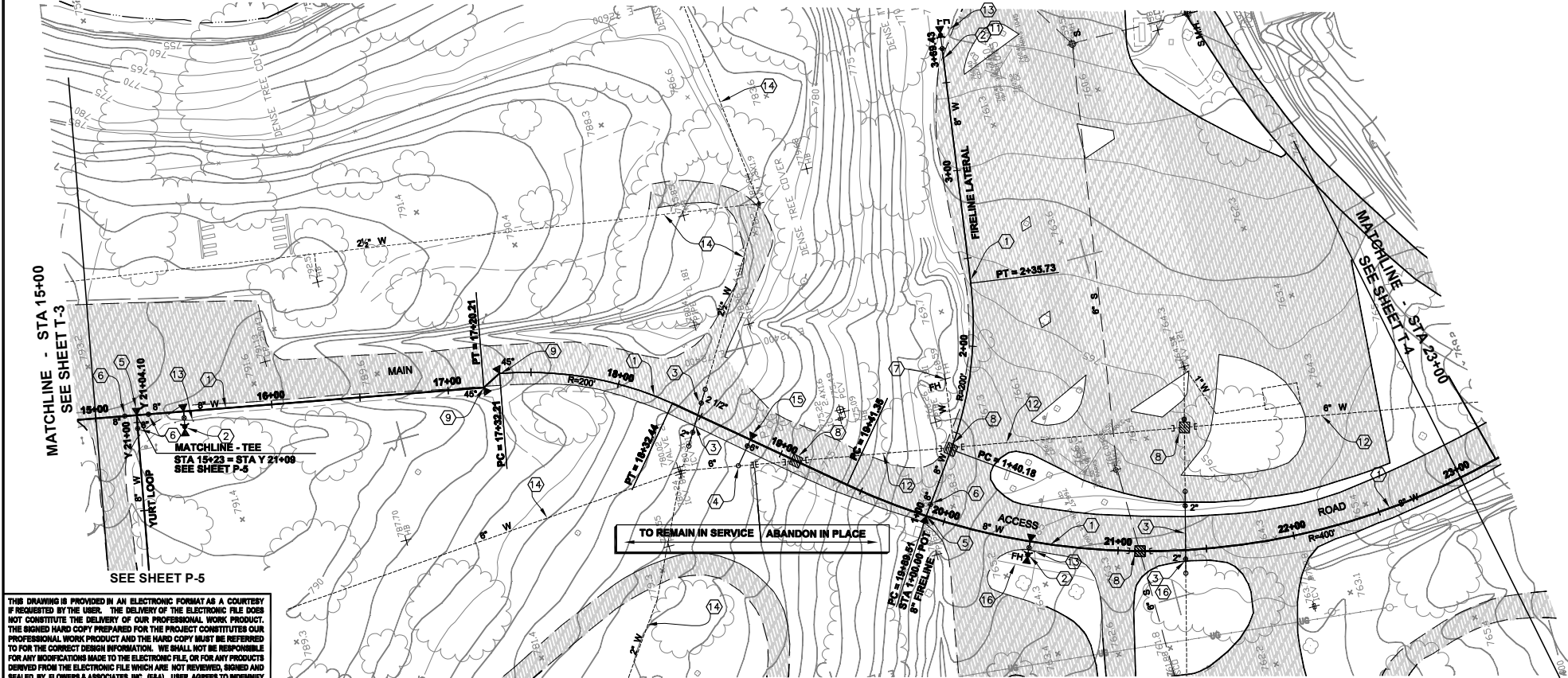
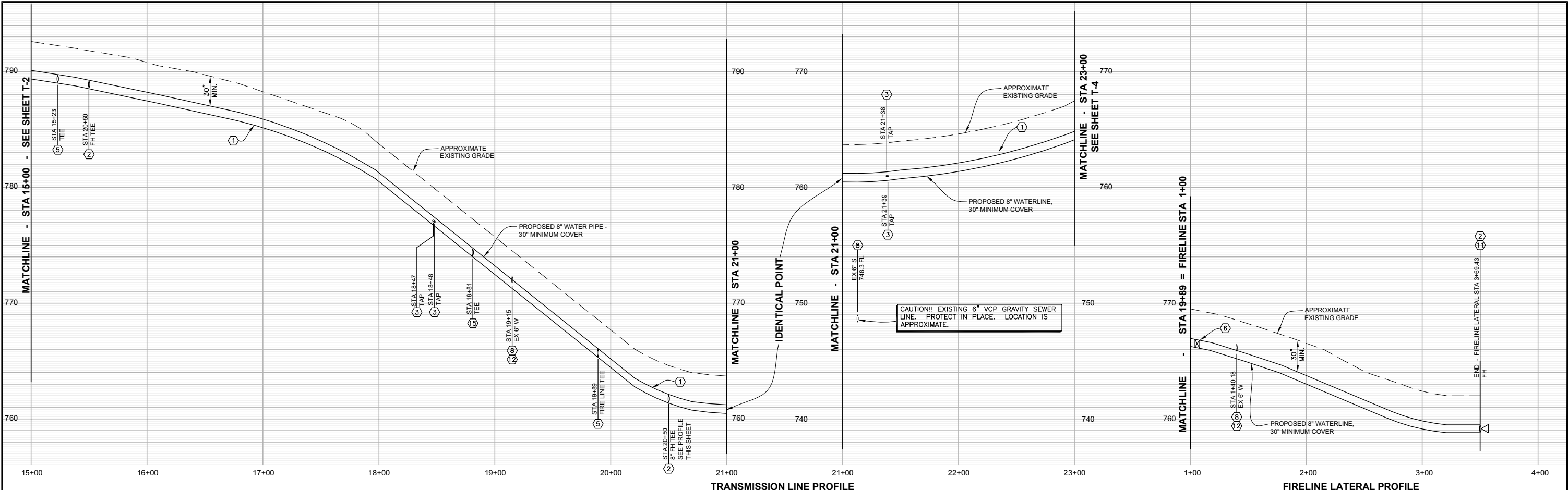
SPECIFIC CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT 8-INCH PVC WATER PIPE, CLASS 200, 30 INCHES MINIMUM COVER, PER TRENCH DETAIL 20 ON SHEET CD-2.
2. CONSTRUCT 6-INCH FIRE HYDRANT ASSEMBLY PER DETAILS 30 AND 32, SHEET CD-3.
3. CONSTRUCT MINOR DISTRIBUTION LINE CONNECTION, SIZE AS SHOWN, PER DETAIL 35, SHEET CD-3.
4. CONSTRUCT CONNECTION TO EXISTING DISTRIBUTION LINE. SIZE AS SHOWN, PER DETAIL 37, SHEET CD-3.
5. CONSTRUCT END CAP AND THRUST BLOCK PER DETAIL 24 ON SHEET CD-2. END OF WORK THIS CONTRACT.
6. ABANDON EXISTING PIPELINE.
7. NOT A PART OF THIS CONTRACT.
8. CONSTRUCT GUARD POSTS PER DETAIL 8 ON SHEET CD-1.
9. CONSTRUCT 8" GATE VALVE PER DETAIL 25 ON SHEET CD-2.
10. THIS PORTION OF EXISTING 6" WATERLINE TO REMAIN IN SERVICE.
11. CONSTRUCT 8"x8"x6" TEE AND THRUST BLOCK PER PIPING DETAILS 24 AND 26 ON SHEET CD-2.
12. RELOCATE EXISTING FENCE AS NECESSARY TO CLEAR PIPELINE.

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NO.	DESCRIPTION	DATE	APPROVED



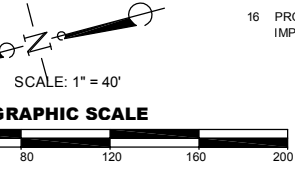
FLOWERS & ASSOCIATES, INC.
CIVIL ENGINEERS
201 N. Calle Cesar Chavez, Suite 100 Santa Barbara, CA 93103
Telephone (805) 966-2224
BY: *Eric L. Flavel* PROJECT ENGINEER DATE: *5/20/09*

THESE PLANS HAVE BEEN PREPARED SOLELY FOR USE FOR THE PROJECT SCOPE AND SITE SPECIFICALLY IDENTIFIED HEREON AT THE TIME THESE PLANS WERE BOUND. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, USE OF ANY PART OF THESE PLANS, INCLUDING ANY NOTE OR DETAIL, FOR ANY UNAPPROVED OR REVISED PROJECT SCOPE, OR FOR ANY OTHER PROJECT AT THIS OR ANY OTHER SITE.



COUNTY OF SANTA BARBARA
COUNTY PARKS
610 Mission Canyon Road
Santa Barbara, CA 93105

Design: ELF Check: BS
Drawn: SS
Project Engineer:
Date:



- SPECIFIC CONSTRUCTION NOTES THIS SHEET:**
- 1 CONSTRUCT 8-INCH PVC WATER PIPE, CLASS 200, 30 INCHES MINIMUM COVER, PER TRENCH DETAIL 20 ON SHEET CD-2.
 - 2 CONSTRUCT 6-INCH FIRE HYDRANT ASSEMBLY PER DETAILS 30 AND 32, SHEET CD-3.
 - 3 CONSTRUCT MINOR DISTRIBUTION LINE CONNECTION, SIZE AS SHOWN, PER DETAIL 35, SHEET CD-3. CONSTRUCT TRAFFIC RATED VALVE BOX IN ROAD.
 - 4 CONSTRUCT CONNECTION TO EXISTING DISTRIBUTION LINE, SIZE AS SHOWN, PER DETAIL 37, SHEET CD-3.
 - 5 CONSTRUCT 8" x 8" x 8" TEE AND THRUST BLOCK PER PIPING DETAILS 24 AND 26 ON SHEET CD-2.
 - 6 CONSTRUCT 8-INCH GATE VALVE PER DETAIL 25, SHEET CD-2.
 - 7 REMOVE EXISTING FIRE HYDRANT AND ASSEMBLY.
 - 8 POT HOLE LOCATION OF EXISTING CONDUIT AND REPORT FINDINGS TO ENGINEER PRIOR TO CONSTRUCTION.
 - 9 CONSTRUCT 45° BEND AND THRUST BLOCK PER DETAIL 24, SHEET CD-2.
 - 10 CONSTRUCT END CAP AND THRUST BLOCK PER DETAIL 24, SHEET CD-2.
 - 11 CONSTRUCT 6" x 8" REDUCER AND THRUST BLOCK PER DETAIL 24, SHEET CD-2.
 - 12 ABANDON PIPE PER SPECIFICATIONS. CONTRACTOR TO CUT AND CAP EXISTING WATERLINE AT EDGE OF TRANSMISSION PIPELINE TRENCH AS SHOWN.
 - 13 CONSTRUCT GUARDPOSTS PER DETAIL 8 ON SHEET CD-1.
 - 14 THIS PORTION OF EXISTING WATERLINE TO REMAIN IN SERVICE. CONNECT TO NEW 8" TRANSMISSION PIPELINE AS SHOWN.
 - 15 CONSTRUCT 8"x8"x8" TEE AND THRUST BLOCK PER DETAIL 24, SHEET CD-2. CONNECT 8" TRANSMISSION PIPELINE TO EXISTING 6" WATERLINE AS SHOWN.
 - 16 PROTECT PATH OR REMOVE AND REPLACE AS REQUIRED TO CONSTRUCT IMPROVEMENTS.

**TRANSMISSION PIPELINE
PLAN AND PROFILE**
LAKE CACHUMA WATER STORAGE AND
DISTRIBUTION SYSTEM IMPROVEMENTS
COUNTY OF SANTA BARBARA, CALIFORNIA

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